ABSTRACT

REDUCTION OF DEVICE DISCOVERY DELAYS IN FREQUENCY HOPPING-BASED AD-HOC NETWORKS

A method for reducing device discovery delays in frequency hopping-based ad-hoc networks is disclosed. According to the method, an activity being performed is periodically interrupted to scan for inquiry messages from other devices for a pre-determined time period. Processing of a received inquiry message, in accordance with the normal procedures applicable to the particular frequency hopping based ad-hoc network, occurs after expiry of a random time period. At the end of the pre-determined time period, the original activity is returned to. A device for use in frequency hopping based ad-hoc networks that embodies the described method and a computer program product for such a device, are also disclosed.